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Document Number 3

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File: DWPI

Jul 28, 1999

DERWENT-ACC-NO: 1999-142479

DERWENT-WEEK: 199935

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TITLE: Ruminant food ration formulation - to provide for the methionine needs, particularly, of lactating dairy cows

INVENTOR: KNIGHT, C D; KOENIG, K M ; RODE, L M ; VANDENBERG, M J ;
VAZQUEZ-ANON, M

PATENT-ASSIGNEE: NOVUS INT INC[NOVUN], AGRIFOOD CANADA[AGRIN]

PRIORITY-DATA:

APPL-NO

1997US-0900414

APPL-DATE

July 25, 1997

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ZA 9806644 A	July 28, 1999	N/A	041	A23L000/00
WO 9904647 A1	February 4, 1999	E	043	A23K001/16
AU 9885926 A	February 16, 1999	N/A	000	A23K001/16

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC
MW NL OA PT SD SE SZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	APPL-DESCRIPTOR
ZA 9806644A	July 24, 1998	1998ZA-0006644	N/A
WO 9904647A1	July 24, 1998	1998WO-US15488	N/A
AU 9885926A	July 24, 1998	1998AU-0085926	N/A
AU 9885926A	N/A	WO 9904647	Based on

INT-CL (IPC): A01 K 0/00; A23 K 1/16; A23 K 1/18; A23 L 0/00

ABSTRACTED-PUB-NO: WO 9904647A

BASIC-ABSTRACT:

Formulation of a ruminant food ration is effected by (a) determining the methionine needs of the ruminant; (b) identifying a plurality of natural or synthetic feed ingredients and the nutrient composition of each, including 2-hydroxy-4-(methylthio)butanoic acid or a salt, amide or ester of this; and (c) formulating a ration from the identified feed ingredients to meet the determined methionine need, comprising (i) one or more grains; (ii) a hydroxy analog of methionine; and (ii) optionally a

bypass fat. The hydroxy analog of methionine is selected from 2-hydroxy-4-(methylthio)butanoic acid and its salts, amide or ester. It is added separately from any bypass fat added. The ration is formulated on the basis that at least 20% of the hydroxy analog of methionine is assumed to be available for absorption by the ruminant.

USE - The preferred formulation is particularly useful for lactating cows (claimed).

ADVANTAGE - In this process it is unnecessary to coat methionine or otherwise protect it from rumen microflora. Thus there is no loss of activity on mastication or cud chewing. A predictable milk response is obtained in this process. Use of the ration avoids providing excess levels of fats or other non-essential amino acids in order to satisfy the methionine requirement. The food ration yields a cost improvement over previous formulations, as the hydroxy analog of methionine is the most economical means to provide needed methionine to the ruminant. Use of this formulation is also advantageous to herd health and production in the dairy farm industry.

ABSTRACTED-PUB-NO: WO 9904647A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/12

DERWENT-CLASS: D13 E16 E17 P14

CPI-CODES: D03-G04; E10-C04D2; E10-D03D; E10-E04K;

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Jul 28, 1999

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DERWENT-WEEK: 199935

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APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	APPL-DESCRIPTOR
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WO 9904647A1	July 24, 1998	1998WO-US15488	N/A
AU 9885926A	July 24, 1998	1998AU-0085926	N/A
AU 9885926A	N/A	WO 9904647	Based on

INT-CL (IPC): A01 K 0/00; A23 K 1/16; A23 K 1/18; A23 L 0/00

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Formulation of a ruminant food ration is effected by (a) determining the methionine needs of the ruminant; (b) identifying a plurality of natural or synthetic feed ingredients and the nutrient composition of each, including 2-hydroxy-4-(methylthio)butanoic acid or a salt, amide or ester of this; and (c) formulating a ration from the identified feed ingredients to meet the determined methionine need, comprising (i) one or more grains; (ii) a hydroxy analog of methionine; and (ii) optionally a

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File: DWPI

May 18, 1995

DERWENT-ACC-NO: 1995-193841

DERWENT-WEEK: 199525

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TITLE: Prepn. of ruminant feed supplement, useful as rumen by-pass supplement - by exothermic salt-forming reaction of admixture of fatty acid, calcium oxide, methionine hydroxy analogue alkaline earth salt etc.

INVENTOR: CUMMINGS, K R; FORREST, R L ; LAJOIE, M S ; VINCI, A ; LAJOIE, M

PATENT-ASSIGNEE: CHURCH & DWIGHT CO INC[CHURN]

PRIORITY-DATA:

APPL-NO

APPL-DATE

1993US-0149305

November 9, 1993

1991US-0802261

December 4, 1991

1993US-0007013

January 21, 1993

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

WO 9512987 A1

May 18, 1995

E

024

A23K001/00

AU 9476315 A

May 29, 1995

N/A

000

A23K001/00

US 5456927 A

October 10, 1995

N/A

005

A23K001/00

DESIGNATED-STATES: AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA UZ VN AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE

CITED-DOCUMENTS:US 4729896; US 4826694 ; US 5236723

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

APPL-DESCRIPTOR

WO 9512987A1

August 22, 1994

1994WO-US09137

N/A

AU 9476315A

August 22, 1994

1994AU-0076315

N/A

AU 9476315A

N/A

WO 9512987

Based on

US 5456927A

December 4, 1991

1991US-0802261

Cont of

US 5456927A

January 21, 1993

1993US-0007013

CIP of

US 5456927A

November 9, 1993

1993US-0149305

N/A

INT-CL (IPC): A23 K 1/00

RELATED-ACC-NO: 1993-196628

ABSTRACTED-PUB-NO: US 5456927A

BASIC-ABSTRACT:

Prepn. of a ruminant feed supplement prod. comprises: (a) forming an admixt. of ingredients comprising (i) at least one 14-22C fatty acid; (ii) calcium oxide (in 0.8-1.5 equiv. basic wt. quantity per equiv. wt. of 14-22C fatty acid); (iii) basic alkali metal cpd. (0.0-0.4 equiv. wt. per equiv. wt. of 14-22C fatty acid); (iv) 10-80 wt.% of an aq. medium (based on the wt. of fatty acid); and (v) a biologically active ingredient comprising methionine hydroxy analogue alkaline earth metal salt; and (b) recovering th salt prod. after completion of th exothermic salt-forming reaction.

Also claimed is a ruminant feed supplement prod. comprising (a) at least one 14-22C fatty acid calcium salt ingredient; and (b) 0.05-20 wt.% (based on the wt. of (a)) of a biologically active additive ingredient comprising methionine hydroxy analogue alkaline earth metal salt.

USE - Feed supplement can function as a rumen by-pass compsn..

ADVANTAGE - Supplement permit a beneficial increase in the dietary fat content of the feed, without killing microorganism which digest fibre in the ruminant's rumen.

ABSTRACTED-PUB-NO: WO 9512987A

EQUIVALENT-ABSTRACTS:

Prepn. of ruminant feed supplement prod. comprises (a) forming an admixture of (i) (14-22C) fatty acid(s); (ii) 0.8-1.5 equiv. wt. CaO; (iii) 0-0.4 equiv. wt. basic alkali metal cpd.; (iv) 10-80 wt. % aq. medium; and (v) methionine hydroxy analogue Ca salt, each w.r.t. equiv. wt. of (i). Process comprises (a) exothermically reacting admixture to form a fatty acid salt prod.; and (b) recovering the salt prod.

USE - Used as rumen bypass feed supplement permitting a beneficial increase in the nutrient fat content of feed.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

DERWENT-CLASS: D13

CPI-CODES: D03-G01;

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